UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
STUDY PLAN

Study ID code	CAPMC-T-0426-RA
Title	Templeton rangeland species and seeding establishment trial
National Project No.	Rangeland 1.1
Study Type	**A**E
Study status	Active
Location	Templeton
Study Leaders	Karl Striby, Templeton FO and David Dyer, CAPMC
Duration	2002 - 2008
Cooperators	NRCS field office, Pritchard ranch, UC Coop. Ex., RCD
Land Use	Rangeland
Vegetative Practices	Primary 550 Range planting Secondary 512 Pasture and hay planting
Resource concerns	Resource — Consideration/Problem Animals — Grazing land conservation Soil — Carbon sequestration Plants — Invasive species
Long Range Plan	Study falls under Section IV, Part 1 and 4 of the CA PM LRP
Description	Determine best cultivar and establishment methods for range plantings in the Templeton area and update the vegetative guide for use in farm bill programs.
Status of Knowledge	Improved plant materials are in limited existence for the stated conservation practices and high performing both native and introduced species are needed. Current establishment methods have limited effectiveness and new methods and timing must be studied.
Experimental Design	RCB Design, three replications, four locations

Treatment 1	Title: No-tilled, fall seeded Description: Above plus weed control methods
Materials and Methods	Samples of seed assembled form PMC collections. Seed will be assembled in 2004. A total of 4 acres will be seeded to plots in four locations. 25 PLS per sq. foot, evaluate plots for vigor, stand establishment, height, forage, etc. No-till drill used for planting. Round-up will be applied before planting to kill annual grasses and weeds. Additional pre-emergent and post-emergent herbicides will be applied for annual grass and weed control. Species list is attached.
Final Evaluations	After initial evaluations, continue to evaluate for stand persistence and weed control
Technology Transfer Products	Revise FOTG standards, TechNote
Literature Cited	There is a need for high performance adapted rangeland species and establish methods for use in the range planting conservation practice in the Templeton area. Successful conversion from an annual grass weed systems to a perennial grass system with few weeds has proven to be difficult and new establishment methods are needed.
Keywords	Rangeland, establishment methods, native grass
Review by:	CA. State Plant Materials Committee
Approvals:	As per approval of CAPMC Business Plan